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(54) HOLLOW-FIBER MEMBRANE CARTRIDGE FILTER

[Scope of Claims for Utility Model Registration]

[Claim 1]

A hollow fiber cartridge filter for filtration in which open ends of a bundle of hollow fibers (2) stored in a cylindrical body (1) are fixed with an adhesive member (3) on a surface of a side wall at an end of the cylindrical body (1),

wherein the adhesion surface of the side wall at the end of the cylindrical body (1) has a plurality of grooves (13) or protrusions (14) provided at certain intervals in a circumferential direction,

the circumferential cross-section of the grooves (13) or protrusions (14) has a fan-shape with a embedding bump (5) from a base of the grooves (13) or protrusions (14), and

the adhesive member (3) and the cylindrical body (1) are fixed and sealed.

[Claim 2]

The hollow fiber cartridge filter of claim 1 wherein

the grooves (13) are dovetail grooves or approximately dovetail grooves (15), and the engaging protrusions (14) are dovetail tenons or approximately dovetail tenons (16).

[Claim 3]

The hollow fiber cartridge filter of claim 1 or 2 wherein

depressed grooves (17) or projections (18) are provided adjacent to or on the grooves (13) or protrusions (14) provided on the adhesion surface of the side wall of the cylindrical body (1).

[Description of Symbols]

- 1 cylindrical body
- 1a outer cylindrical body
- 1b inner cylindrical body
- 2 hollow fiber
- 2a filtering liquid outlet
- 3 adhesive member
- 4 fluid hole
- 5 embedding bump

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- 6 fluid collection chamber
- 7 fluid inlet
- 8 fluid outlet
- 9 housing
- 10 head
- 11 O ring
- 12 washer
- 13 groove
- 14 protrusion
- 15 dovetail groove or approximately dovetail groove of groove
- 16 dovetail tenon or approximately dovetail tenon of protrusion
- 17 depressed groove
- 18 projection